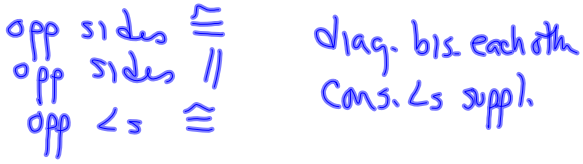
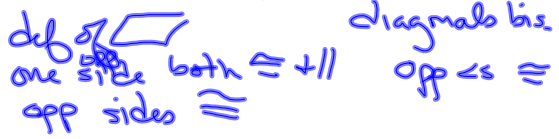
Ch 8 Test--Monday

8.1 Angle Measures in a Polygon
- (n-2)180
- 360
- regular

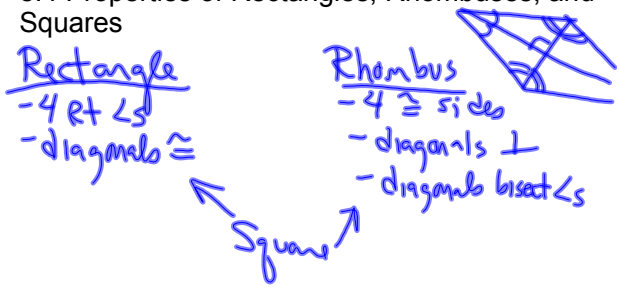
8.2 Properties of a Parallelogram
- facts



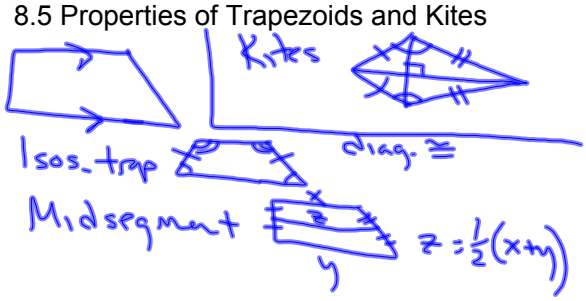
8.3 Showing a quadrilateral is a Parallelogram
- Converses (5 ways)



8.4 Properties of Rectangles, Rhombuses, and Squares



8.5 Properties of Trapezoids and Kites



8.6 Identify Special Quadrilaterals

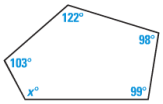
Ch 8 Coordinates

Review assignment
p564 #s 1-12, 14-18
p555 #s 18-24

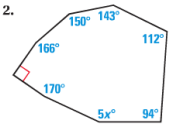
Be sure to review your proof packets!

Find the value of x.

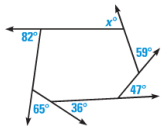
1.



2.



3.

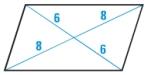


4. In $\square EFGH$, $m\angle F$ is 40° greater than $m\angle G$. Sketch $\square EFGH$ and label each angle with its correct angle measure. *Explain* your reasoning.

Are you given enough information to determine whether the quadrilateral is a parallelogram? *Explain* your reasoning.

5.

6.



7.

In Exercises 8–11, list each type of quadrilateral—*parallelogram*, *rectangle*, *rhombus*, and *square*—for which the statement is always true.

8. It is equilateral.

9. Its interior angles are all right angles.

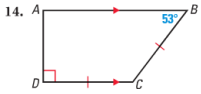
10. The diagonals are congruent.

11. Opposite sides are parallel.

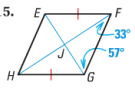
12. The vertices of quadrilateral $PQRS$ are $P(-2, 0)$, $Q(0, 3)$, $R(6, -1)$, and $S(1, -2)$. Draw $PQRS$ in a coordinate plane. Show that it is a trapezoid.

Give the most specific name for the quadrilateral. *Explain* your reasoning.

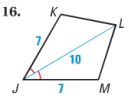
14.



15.



16.

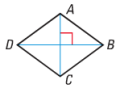


17. In trapezoid $WXYZ$, $\overline{WX} \parallel \overline{YZ}$, and $YZ = 4.25$ centimeters. The midsegment of trapezoid $WXYZ$ is 2.75 centimeters long. Find WX.

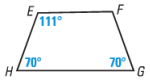
18. In $\square RSTU$, $\overline{RS}$ is 3 centimeters shorter than $\overline{ST}$. The perimeter of $\square RSTU$ is 42 centimeters. Find RS and ST.

IDENTIFYING QUADRILATERALS **Tell whether enough information is given in the diagram to classify the quadrilateral by the indicated name. *Explain*.**

18. Rhombus



19. Isosceles trapezoid



20. Square

COORDINATE PLANE **Points *P*, *Q*, *R*, and *S* are the vertices of a quadrilateral. Give the most specific name for *PQRS*. *Justify* your answer.**

21. $P(1, 0)$, $Q(1, 2)$, $R(6, 5)$, $S(3, 0)$

22. $P(2, 1)$, $Q(6, 1)$, $R(5, 8)$, $S(3, 8)$

23. $P(2, 7)$, $Q(6, 9)$, $R(9, 3)$, $S(5, 1)$

24. $P(1, 7)$, $Q(5, 8)$, $R(6, 2)$, $S(2, 1)$